



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

January 6, 2006

Tennessee Valley Authority
ATTN: Mr. K. W. Singer
Chief Nuclear Officer and
Executive Vice President
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: MEETING SUMMARIES: 1.) CATEGORY 1 PUBLIC MEETING WITH
TENNESSEE VALLEY AUTHORITY (TVA) RE. BROWNS FERRY UNIT 1
RECOVERY STATUS; 2.) MEETING OF THE NRC RESTART PANEL FOR
THE BROWNS FERRY UNIT 1 RECOVERY - DOCKET NO. 50-259

Dear Mr. Singer:

This refers to the public meeting conducted at your Browns Ferry Plant located near Athens, Alabama on December 7, 2005. The purpose of the meeting was to discuss the Browns Ferry Unit 1 (BF1) Restart Project Status. Discussions during this meeting included the following topics: work activities accomplished to date, schedules for future milestones, TVA responses to challenges, and activities important to NRC oversight and inspections regarding Unit 1. Enclosure 1 contains a list of attendees. Enclosure 2 contains the presentation material used by your staff to discuss the status of the Browns Ferry Unit 1 Restart Project. Enclosure 3 contains the NRC Browns Ferry Unit 1 Recovery Issues List which represents the NRC's understanding of the issues requiring NRC review prior to restart of Unit 1. The list is current as of December 7, 2005, the date of the meeting. The meeting was informative and a beneficial exchange of information. Although it did not result in specific action items or decisions, both sides gained a better understanding of near term priorities. These periodic public meetings will continue throughout the recovery process.

In addition, on December 6, 2005, the Nuclear Regulatory Commission (NRC) held an internal meeting of the NRC Browns Ferry 1 (BF1) Restart Oversight Panel at the Browns Ferry site. A second follow-up panel meeting was conducted via telephone on December 15, 2005, to complete unfinished panel business. The purpose of this panel meeting was to discuss NRC perspectives on the BF1 restart project status, results from recent NRC inspections of BF1, status of notable licensing actions, and recent issues important to NRC oversight and inspections. The panel was established in accordance with NRC Inspection Manual Chapter (IMC), IMC 2509, "Browns Ferry Unit 1 Restart Project Inspection Program." The purpose of IMC 2509 is to provide the policies and requirements for the restart inspection program, to establish a BF1 Restart Oversight Panel, and to document the major regulatory and licensee actions associated with the restart.

Documents associated with the NRC oversight of the BF1 Recovery can be found at on the NRC's website at <http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/bf1-recovery.html> .

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room (PDR) or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room). Should you have any questions concerning these meetings, please contact me at (404) 562-4501.

Sincerely,

/RA/

Joseph W. Shea, Deputy Director
Division of Reactor Projects, Region II

Docket No.: 50-259
License No.: DPR-33

Enclosures: 1. List of Attendees
2. TVA Presentation Handout - Browns Ferry Nuclear Plant - Unit 1 Restart
NRC Presentation Handout - NRC Oversight of the Browns Ferry Unit 1
Recovery
3. NRC Browns Ferry Unit 1 Recovery Issues List (December 7, 2005)

cc w/encls: (See page 3)

TVA

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cc w/encls:

Ashok S. Bhatnagar
Senior Vice President
Nuclear Operations
Tennessee Valley Authority
Electronic Mail Distribution

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Nuclear Engineering
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Brian O'Grady
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Robert J. Beecken, Vice President
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Masoud Bajestani, Vice President
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Robert G. Jones, Restart Manager
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Browns Ferry Nuclear Plant
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Distribution w/encls: (See page 4)

TVA

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Distribution w/encl:

M. Chernoff, NRR

E. Hackett, NRR

S. Cahill, DRP

K. Clark, RII

M. Lesser, DRS

B. Bearden, DRP

C. Casto, DRP

V. McCree, DRP

L. Plisco, RII

B. Wetzel, OEDO

E. Brown, NRR

L. Slack, RII EICS

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☐ PUBLICLY AVAILABLE

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☐ SENSITIVE

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ADAMS: ☐ Yes ACCESSION NUMBER: _____

OFFICE	DRP:RII	DRS:RII	DRP:RII	DRP:RII			
SIGNATURE	SMS	MSL	JWS1 for	JWS1			
NAME	SShaeffer	MLesser	SCahill	JShea			
DATE	01/04/2006	01/04/2006	01/06/2006	01/06/2006			
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: E:\Filenet\ML060060554.wpd

List of Attendees

NRC/TVA Unit 1 Restart Management Meeting

Nuclear Regulatory Commission

E. Hackett, Director, Project Directorate II (PDII), Division of Operating Reactor Licensing (DORL), NRR
M. Marshall, Section Chief, PDII, DORL, NRR
M. Chernoff, Browns Ferry Unit 1 Project Manager, PDII, DORL, NRR
D. Duvigneaud, Project Engineer, NRR
J. Shea, Deputy Director, Division of Reactor Projects (DRP), Region II (RII)
S. Cahill, Chief, DRP, Branch 6, RII
M. Lesser, Chief, Engineering Branch 3, Director, Division of Reactor Safety (DRS), RII
B. Bearden, Unit 1 Senior Resident Inspector, Browns Ferry, DRP, RII
S. Shaeffer, Senior Project Engineer, DRP, RII,
S. Walker, Resident Inspector, DRP, Branch 1
K. Clark, Public Affairs, RII

Browns Ferry (TVA)

B. O'Grady, Site Vice President
R. Jones, Unit 1 Plant Restart Manager
J. Valente, Unit 1 Engineering Restart Manager
T. McGrath, Senior Project Manager, Operational Readiness
W. Crouch, Site Licensing & Industry Affairs Manager
R. Baron, Unit 1 Nuclear Assurance Manager
E. Hollins, Unit 1 Maintenance & Mods Manager
J. McCarthy, Unit 1 Licensing
C. Beasley, TVA Communications and Government Relations

Public

D. Sherer, Reporter, Florence Times
J. Tipper, Citizen
G. Posey, Citizen
J. Tipper, Teacher
L. Truett, Citizen
K. Middleton, Athens News
H. Hollman, Decatur Daily

NRC REGION II - BROWNS FERRY UNIT 1 RECOVERY ISSUES LIST

Issue Status as of December 7, 2005

Reconciled with last TVA Quarterly Update (November 19, 2005)
Last BF1 Restart Meeting: December 7, 2005 at Browns Ferry

Summary

TVA Special Programs - There are 27 TVA Special Programs identified in the TVA Regulatory Framework Letter (dated 12/13/2002) regarding Unit 1 recovery. Prior to the Unit 1 recovery, additional Special Programs existed which were closed and/or combined with the remaining 27. This matrix identifies all 30 Special Program areas in order to clarify how several programs have been consolidated into the inspection process based on how the issues were reviewed for the Unit 2 and 3 recoveries. TVA is providing Special Program closures for the 27 they identified via a comprehensive quarterly issue update letter.

23 Open - (out of 30 listed in this matrix)

7 Inspections complete - (based on the reviews performed, no further NRC inspections are anticipated in this area)

Initial inspections have been performed for most Special Programs. Inspections are complete for: Cable Tray Supports, Conduit Supports, Configuration Management (including Design Calc. Review subpart), IGSCC, Drywell Platforms, and Seismic II/I as of 11/05.

Generic Communications Open Items - Includes all items from TVA Regulatory Framework correspondence and other NRC reviews to identify issues for Unit 1. These include NRC Generic Letters, Bulletins, Multi-palnt Actions (MPA), Three Mile Island (TMI) Items, Temporary Instructions (TI), etc.

41 Open

25 Closed (Items adequately resolved for restart in accordance with NRC Inspection Manual Chapter (MC) 2509.

Open Items (LERs, URIs, and IFIs) - Includes items identified as open for Unit 1 based on historical docket review. This was the primary inspection area in 2004.

5 Open Listed below. Inspections planned for 3 items to be closed in current Inspection Report (IR) 05-09.

46 Closed Adequately resolved for restart per MC 2509 and closed in an IR since BF1 Recovery inspections began in 2003.

Remaining Unit 1 LERs, URIs, and IFIs

LER	88-32	Evaluate Cable Separation Criteria, Fillion/Staples. Inspection planned in current IR 05-09 period.
LER	88-37	Inadequate Design Results for HVAC (Seismic Issue) - Vias reviewed 9/05, field work not complete, to be rescheduled, 07/06.
IFI	93-04-01	Static O-Ring Switches, related Bulletin 86-02 - discussed in 05-06, new design to be implemented - review mod/qualification. SRI to review new Design Change Notice (DCN) to close. Bearden re-inspect in December 2005.
URI	05-06-02	Effect of Location Deviations for Pipe Support, Chou to address in December 2005.
URI	05-16-01	Use of Local Manual Operator Actions to Achieve Safe Shutdown during a fire (see Special Program #12).

NOTES: An extensive review of inspection reports (IR) back to 1985 was done for all open inspection items against Unit 1. Many of these were resolved but never formally closed on the Unit 1 docket. Most of these items have now been formally closed in a Unit 1 IR and recorded in NRC's RPS tracking program. Open allegations, OI investigations, and emerging/draft issues are not contained in this list. Open Licensing Actions with NRR are maintained on a separate list, but will be evaluated for addition to this list by the Restart Panel.

Sources for all the above issues include: Historical RPS, SIMS, NUREG 1435 (Status of Safety Issues at Licensed Power Plants), SECY 95-264 (final Unit 3 Restart Matrix)

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
#	DESCRIPTION	RESOLVED ON U2-3 (NUREG 1232 VOL. 3 SECTION / PREV. SER)	NRC INSP LEAD/ ALTERNATE	INSP REPORTS (C- INSPECTION COMPLETED)	TVA CLOSURE STATUS (Planned)	TRACKED IN TVA RESTART ISSUES LETTER	NRR UNIT 1 COVERED BY PREV U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
1	Cable Ampacity	3.11.3	DRS- C.Smith, Staples	04-07	Open 9/27/06	Yes	NUREG- 1232	No	Additional inspection TBD pending completion of modifications for sample.
2	Cable Installation/Cable Separations Issues	3.11.4, .5	DRS- Staples	04-07 04-09 05-08	Open 9/27/06	Yes, tracked as 8 sub issues	SER 4/08/92 SER 7/1/94 on bend radius	No	Inspections planned 2/06, 4/06, 8/06. Related closure item LER 88-32 to be closed in IR 05-09. Ref. 1/28/93 closure letter. U2 closed in IR 90-25. U3 closed in IR 95-25.
3	Cable Splices	3.13	DRS-Merriweather, Rodriguiz	04-08 05-08	Open 9/27/06	Yes	SER 4/08/92 1/23/91	No	Inspection scheduled 2/06. Thermal overload issues identified in IR 05-08 - will need to address extent of condition reviews once completed by TVA.
4	Cable Tray Supports	2.2.2.7; SE 12/17/91	DRS-Vias, Nazario	03-10 04-06 05-08C	Closed 2/18/05	Yes	SER 12/17/91 11/19/92 3/19/93	No	Inspection complete - no further action planned. TVA 10/7/04 letter on SQUG [GL 87-02] summarized resolution. U3 closed in IRs 90-22,95-14, 95-20, 95-52.
5	Component and Piece Part Qualification	3.3	DRS-Merriweather. In combination with EQ (11)		Open 6/26/06	Yes	12/07/93 NRC letter said could be closed via inspection	No	Initial program review completed during EQ inspection - not specifically discussed in IR at this time. U3 closed in IR 95-60.

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
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6	Conduit Supports	2.2.2.3	DRS-Vias, Carrion, Nazario	04-06 05-08C	Closed 2/18/05	Yes	SER 10/24/89 3/20/92 11/19/92 3/19/93	No	Inspection complete - no further action planned. TVA 10/7/04 letter on SQUG [GL 87-02] summarized resolution U3 closed in IRs 95-15 & 95-57.
7	Configuration Mgmt/ Design Baseline	2.1	DRS-Mellen, SSDPC Team	05-08C	Closed 5/19/05	Yes	NRC 11/21/91 approval letter on U1 docket	No	Inspection completed 8/29 and 9/12, 2005. Utilized baseline SSDPC inspection procedure for review. Related to Item #10.
8	Containment Coatings	3.7	DRS-Lenahan, Maymi	04-07 04-08 05-06	Open 8/14/06	Yes	NUREG 1232 covered U2.	No	Torus closeout insp. 8/30/04 was deferred to and closed in 3/05. Drywell review scheduled Jan 06). U3 closed in IRs 94-01, 94-09, 94- 18, 94-27.
9	Control Rod Drive insert/withdrawal piping	2.2.3.2	DRS-Lenahan, Vargas	04-07 04-08 05-08	Open 5/08/06	Yes	NUREG 1232 covered U2.	No	Inspection scheduled 12/19/05. U3 closed in IR 95-52.
10	Design calc review	2.1	DRS-Mellen, Unit 1 SSDPC type team inspection	Inspection Complete 05-08.	Closed 5/19/05	No, TVA tracking as #7, design baseline	NRC 11/21/91 approval letter on U1 docket	No	Inspection completed 8/29 and 9/12, 2005. Utilized baseline SSDPC inspection procedure for review. This item incorporated into Item #7. U2/3 SSDPC performed in Jan 05.
11	Environmental Qualification	3.2	DRS-Merriweather, Mas-Penaranda	03-10 04-08 05-08	Open 7/31/06	Yes	NUREG 1232 covered U2	No	Inspection scheduled for 6/06. U3 closed in IRs 95-43, 95-56.

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
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12	Fire Protection/10 CFR 50, Appendix R	3.1	DRS- Fillion, Wiseman, Rodriguiz	04-09 05-16	Open 8/7/06	Yes	SER 12/08/88 11/03/89 3/31/93 11/02/95	A review of the U1 licensing basis is in progress to confirm TVA's approach to this area.	Previous SERs addressed overall approach, no Unit 1 specific exemptions considered required. First prelim. review in IR 04-09. Initial inspection of App. R SSD analysis occurred in Nov 05 & identified inconsistencies in SERs and large reliance on manual actions (URI 05-16-01). Next triennial inspection sched. 8/06 for U 1, 2, & 3. Team to include determination if any impact from manual action or hot short generic resolutions. U3 was closed in IRs 94-27, 95-04, 95-07, 95-37.
13	Flexible Conduits	3.12	DRS-Fillion, Staples,Mas- Penaranda	04-07 04-09.	Open 7/31/06	Yes	SER 3/19/93 SER 10/3/95	No	Inspections planned for 4/06 & 8/06. Related to GL 87-02 resolution.
14	Fuses	3.11	DRS-Merriweather, Staples, Christnot assist in sampling verification	04-08 05-08	Open 9/20/06	Yes	NUREG 1232 covered U2 SER. 4/14/89	No	Program reviewed in 04-08. Next inspection 2/06 (installation) will also review splices (#3). U3 closed in IRs 93-02, 93-08, 95- 02, 95-45.
15	HVAC Duct Supports	2.2.2.4	DRS-Vias, Carrion, Nazario		Open 5/25/06	Yes	NUREG 1232 covered U2 SER. 10/24/89 8/22/90	No	Next inspection 07/06. Also address LER/88-37 during next inspection. U3 closed in IRs 93-201 & 95-52.

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
#	DESCRIPTION	RESOLVED ON U2-3 (NUREG 1232 VOL. 3 SECTION / PREV. SER)	NRC INSP LEAD/ ALTERNATE	INSP REPORTS (C- INSPECTION COMPLETED)	TVA CLOSURE STATUS (Planned)	TRACKED IN TVA RESTART ISSUES LETTER	NRR UNIT 1 COVERED BY PREV U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
16	Instrument Sensing Lines	3.4	DRS-Lenahan in-house review of design (Nazario) DRP- SRI walkdown, focus on lines in high traffic areas.		Open 7/13/06	Yes	SER 12/10/91	No	Early 06 (after installation near completion). Close by DRS review of Program and DRP final walkdown. U3 closed IRs 94-24, 95-56.
17	Instrument Tubing	2.2.3.4	DRS-Lenahan, Vargas. DRP- SRI perform sample walkdown, focus on key lines in high traffic areas.	05-08	Open	Combined with Small Bore Special Program			Inspection TBD. Program combined with small bore piping in original regulatory framework letter.
18	Intergranular Stress Corrosion Cracking (IGSCC)	3.6	DRS- Fuller, Vargas	03-09 03-10 04-06 04-07 04-09 05-08C	Open	Yes	SER 12/21/89 U2 SER 12/03/93 U3 SER 4/25/05	NRR SE to be issued	Program submitted for review 7/21/04. Scope of U1 different than U2 and 3. New precedent for U1. Reviews have included recirc and RBCCW piping. Inspection included Mechanical Stress Improvement Process (MSIP). Ref. GL 88-01, GL 94-03. U3 closed in IRs 92-31 & 93-05.

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
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19	Large Bore Piping Supports	2.2.3.1	DRS-Chou, Maymi, Rivera	03-09 05-06 05-08 05-09	Open	Yes, TVA tracks as Bul 79-02 and 79-14, not as a special program	NUREG 1232	No	Inspection planned 1/06, 2/06
20	Long Term Torus Integrity Program	2.2.4.3; SE 8/20/80	DRS-Chou, Lenahan, Maymi	03-09 03-10 04-11(Esc. Enf) 04-07 04-09.	Open 7/5/06	Yes	SER 5/06/85 2/10/92	No	Complete in conjunction with large bore pipe program. Internal torus complete. Next inspection to review external supports. U3 closed in IRs 94-15,95-03, 95-52.
21	Drywell Steel Platforms and Upper drywell platforms	2.2.2.5	DRS-Lenahan, Maymi	03-09 04-07 05-08C	Open 4/20/06	Yes	SER 12/7/93	No	Inspections complete for drywell steel - no further action planned.
22	Misc Steel Frames	2.2.2.6 SE 10/24/89	DRS-Lenahan, Carrion	03-09	Open	No			Inspection of Drywell steel is complete -TVA to NRC 12/13/02 letter combined Misc Steel Frames into Lower Drywell Platforms and Miscellaneous Steel.

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
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23	Moderate Energy Line Break (MELB)	3.8	NRR/DRP/Shaeffer		Complete, closure package available.	Yes	NUREG 1232	Yes NRR issue letter to close.	TVA to NRC 6/25/04 letter completed TVA actions. NRR provide documentation to support closure. U3 - 95-52 MELB analysis requested from TVA by Shaeffer 5/19/05. RII received closure information 6/4/05. NRR to confirm using same program a U2/3.
24	Platform Thermal Growth	2.4	DRS-Lenahan, Carrion, Maymi	03-09 04-04 05-08	Open	No			TVA to NRC 12/13/02 letter combined Platform Thermal Growth into Lower Drywell Platforms and Miscellaneous Steel. Rx building platforms remain to be inspected.
25	Probabilistic Safety Assessment (PSA)	3.9	NRR DRS-Bernhard		Complete 2/18/05	No	No SER for any unit (PSA). NRC staff evaluation 9/28/94 for U2 (88-20) 5/20/98, 5/04/99 for U3 (88-20)	Yes Closure Ltr to Licensee from NRR.	NRR reviews required. TVA to NRC 12/13/02 letter closed PSA with BFN Multi-Unit PSA (April 14, 1995). NRC request ltr 6/21/04. SRA/NRR to review TVA's 8/17/04 Resp to GL 88-20. Issues caused re-calc to be done May '05 - will make more like U2/3 PSA results. NRR response letter to close. U3 closed IR 95-49.
26	Q List	3.15	DRP-Bearden		Open	Yes			Inspection planned 1/06. Ref GL 83-28.

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework Ltr from NRR/Marsh)									
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27	Restart test program (RTP)	4.6	NRR/DRP		Open 9/12/06	Yes	NUREG 1232 SER 8/30/94	Yes	Specific licensee system turnover reviews to be done on key systems by experienced inspectors familiar with BWR mitigating systems. NRR Ltr to TVA 6/15/05 requesting details of RTP. TVA submitted RTP 8/15/05. Currently under tech staff review. U3 closed in IRs 95-07, 08, 26, 51, 60.
28	Seismic Class II Over I/Spacial Systems Interactions and Water Spray	2.2.4.2	DRS-Vias, Nazario	05-08C	Open 7/21/05	Yes	SER 11/19/92	No	Perform in conjunction with HVAC and Electrical Conduit Support. Include DCN 51192, as referenced in IR 04-06, Section E1.3. Related to GL 87-02.
29	Small Bore Piping/Supports	2.2.3.3	DRS-Lenahan, Maymi Alternate - Vias	05-08	Open	Yes, combined with #17 Instrument Tubing	SER 10/24/89 2/4/92	No	Inspection 1/06. Inspect in conjunction with Instrument Tubing. U3 closed in IRs 95-03, 95-57 .
30	Thermal Overload	3.11	DRS-Merriweather, Staples	04-08 05-08	Open 9/20/06	Yes	NUREG 1232	No	Next inspection 6/06. NCV identified in IR 05-08 regarding TOL design implementation problems - will need to address extent of condition reviews once completed by TVA. U3 closed in IR 95-25.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
#	ISSUE	DESCRIPTION	RESOLVED ON U2-3 (NUREG 1232 VOL. 3 SECTION / PREV. SER)	NRC INSP LEAD/ ALTERNATE	INSP REPORTS [C-CLOSED]	TVA CLOSURE STATUS (Planned)	TRACKED IN TVA RESTART ISSUES LETTER	NRR UNIT 1 COVERED BY PREV U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
1	BU 79-02	Pipe Support Base Plate Designs Using Concrete Expansion Anchor Bolts	SER 2/8/90	DRS-Chou		Open	Yes		NUREG 1232	Associated with large bore piping reviews. TVA action due Apr 06.
2	BU 79-12	Short Period Scrams At BWR Facilities		DRS-E. Lea		Open	Yes			Inspection planned 2/27/06. U3 item closed in IR 95-51, TVA action due Jun 06.
3	BU 79-14	Seismic Analysis for As-Built Safety Related Piping Systems		DRS-Chou		Open	Yes	SER 10/24/89	NUREG 1232	TVA action due Apr 06. Associated with large bore piping reviews. U3 closed IRs 94-15, 94-29, 95-03, 95-52.
4	BU 80-06	Engineered Safety Feature Reset Controls		DRS-Mas- Penaranda - EB1		Open	Yes	No SER		Inspection planned mid 2006. U3 item closed in IR 95-22, TVA action due March 06.
5	BU 84-02	Failure of GE Type HFA Relays in Use in Class 1E Safety Systems		DRP	04-09C	Closed 2/18/05	Yes	No SER		U3 item closed in IR 95-43, WOs for Buls 84-02 & 88-03 to be worked Oct 05.
6	BU 86-02	Static "O" Ring Differential Pressure Switches		DRP	05-06C	Closed 5/19/05	Yes	No SER	94-31	U3 item closed in IR 94-31, see also IFI 93-04-01, TVA action due Apr 06.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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7	BU 88-03	Inadequate Latch Engagement in HFA Type Relays Manufactured by GE	SER 8/2/90	NRR/DRP	04-09C	Closed 2/18/05	Yes	No	TVA submittal required upon completion	NRR determined issue is closed for Unit 2-3., WOs for Buls 84-02 & 88-03 to be worked until Oct 05.
8	BU 88-04	Potential Safety Related Pump Loss		DRP/Bearden	04-09C	Closed 2/18/05	Yes	No SER	Yes	TI 2515/105 (orig. did not require BF to do insp.). TVA response submitted 5/04, U1 item addressed in IR 95-31. TVA to NRC 5/7/04 letter completed TVA actions.
9	BU 88-07	Power Oscillation in Boiling Water Reactors		DRS-OLHP-Lea		Complete-package available for closure, delivered to Lea 3/05	Yes	SER 5/31/94		Inspection planned 2/27/06. TI 2515/099, TVA action due May 05 -NRC to TVA 5/31/1994 letter, TVA considers complete with issuance of TS 300
10	BU 88-10	Nonconforming Molded-Case Circuit Breakers		DRP-S. Walker	Inspection complete To close in pending IR 05-09	Open	Yes	No SER. NRC to TVA letter 3/10/92		Reference NRC to TVA letter 3/10/92 closed Bulletin for U1- verify no changes, to parts or installed components. Lic mods 12/05.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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11	BU 90-01	Loss of Fill Oil in Rosemount Transmitters		DRS-EB1, Moore/Peabody	Inspection complete To close in pending IR 05-09	Open	Yes	SER 4/04/95	NRR closeout letter / SE 2/7/05	TI 2515/122 - reference only. MC change notice 95-08 deleted TI for BF1. TVA ltr 6/7/04.
12	BU 93-02	Debris Plugging of Emergency Core Cooling Suction Strainers		DRP-Patterson	Inspection complete. To be closed pending SER.	Complete 5/19/05 Closure Pkg. Ready	Yes	6/28/93 ltr 7/19/94 ltr	SER pending per NRR	No original SER for U2/3. TVA response 5/6/04. Included final drywell inspection walkdown. U3 closed in IR 95-60 .
13	BU 93-03	Resolution of Issues Related to Reactor Vessel Water Level Instrumentation in BWRs	SER 4/20/94	DRP-Patterson		Open	Yes	SER 4/20/94	TVA closure ltr	See BUL 92-04. Use TI 2515/128 reference. Verify installation to close. U3 closed IRs 95-31 and 95-56, 93-201.
14	BU 95-02	Unexpected Clogging of a RHR Pump Strainer While Operating in Suppression Pool Cooling Mode		DRP-Patterson	Inspection complete To close in pending IR 05-09	Complete 5/19/05 Closure Pkg. Ready	Yes	SER 3/14/96	BU 93-02 No SER	Was to be addressed for Unit 3 around startup.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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15	BU 96-03	Potential Plugging of Emergency Core Cooling Suction Strainers by Debris in Boiling Water Reactors		DRP-Patterson	Inspection complete. To be closed pending SER	Complete 5/19/05 Closure Pkg. Ready	Yes	No SER	SER pending per NRR	11/15/99 NRC letter completed review for U 2,3. TVA committed to actions for U2/3. Credit for containment over-pressure issue not yet approved for U1. Reg Guide under review. NRR to determine U1 impact.
16	GL 82-33	Instrumentation to Follow the Course of an Accident - R.G. 1.97	SER 2/8/90	DRS-Mellen, Peabody	05-07C	Closed 8/19/05	Yes	SER 2/8/90 5/10/91 5/3/94	11/19/04 update letter for neutron monitoring	U3 closed IRs 90-32, 93-201, 95-39.. Ref. TI 2515/87. NRR reviewing an amendment involving a proposed upgrade to the neutron monitoring system.
17	GL-83-08	Modification of Vacuum Breakers on Mark 1 Containments		DRP-Bearden	05-06C	Closed 5/19/05	Yes		TVA submittal required upon completion	Ref. TI 2515/096, TVA action due Mar 06. NRC letter 11/25/86 for all three units.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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18	GL 83-28	Salem ATWS -Item 1.2 Trip Review -Item 4.5.2 Periodic On-Line Testing -Item 4.5.3 Intervals for On-Line Testing		DRP-Patterson		Open	Yes	Multiple SERs 8/17/90 9/2/86 10/27/86 3/23/88 6/1/89 5/1/89 9/2/86 6/12/85 6/17/85		TI 2515/064 & TI 2500/020 A-9 (this is a TI requiring inspection). TVA action due Mar 06 Item 1.2 Trip review remains open.
19	GL 87-02	Verification of Seismic Adequacy of Mechanical and Electrical Equipment In Operating Reactors		DRS-Vias	Inspection Complete 04-06. Closure pending SER.	Open	Yes	SER 3/21/2000	Yes, NRR SE required	TVA action due Mar 06. Related to USI A-46. Status in, E1.3. Program submittal 10/7/2004. No U2,3 ref
20	GL 88-01	NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping	SER 12/3/93	DRS-Fuller	Inspections complete 05-08. To be closed pending SE.	Open	Yes		Yes, NRR SE required	IR 95-44, TVA action due Apr 05. See Special program IGSCC closed in 05-08.

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21	GL 88-11	Radiation Embrittlement of Reactor Vessel Materials and its Impact on Plant Operations	SER 6/29/89	NRR/Shaeffer, NRR to review TS 293 to determine U1 impact, any RAI.		Complete	Yes	6/29/89	No	Ref. USI A-26. NRR considers issue closed. NRC to TVA 1/8/93 letter regarding PT curve change, TVA considers complete with issuance of TS 293. NRR to confirm to allow closure.
22	GL 88-14	Instrument Air Supply System Problems Affecting Safety Related Equipment	SER 5/9/89	DRP-Mellen	05-08C	Closed 11/21/05	Yes	5/9/89 ltr	No	IRs 95-38, 95-56, TVA action due Mar 06.
23	GL 88-20	Individual Plant Examination of External Events for Severe Accident Vulnerabilities		NRR DRS-Bernhard		Open	Yes	No	Yes	NRR reviews required. See Special Program - PSA. Initial IPE was U2, then multi-plant was U2/3. TVA letter 1/14/05 indicating complete. SRA/SRI to Evaluate U1 operational risk addition.
24	GL 89-06	Safety Parameter Display System	SER 2/5/92	DRS-Lea		Open	Yes	Yes	No	See TMI item 1D.2
25	GL 89-08	Erosion/Corrosion - Induced Pipe Wall Thinning		DRP-Bearden		Open	Yes	8/21/89 ltr		Unit 3 closed IR 95-41. Insp. Planned 1/06.

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26	GL 89-10	Safety-Related Motor-Operated Valve Testing and Surveillance		NRR/ DRP-Shaeffer	Several GL89-10 mods reviewed in 04-09, not closed	Open	Yes	No SER	No	TI 2515/109. Propose NRR onsite review by Scarborough. Acceptable to closeout via inspection
27	GL 89-13	Service Water System Problems Affecting Safety Related Equipment		DRS-Maymi		Open, package available 12/21/05 per TVA	Yes	SER 4/23/90	TVA submittal - notification of action completion	TI 2515/118, and TI 2515/159 as ref. TVA action due Mar 06. U3 - 95-23. Insp. Planned 5/15/06. Adequate resources to complete in combination with heat sink?
28	GL 89-16	Installation of a Hardened Wetwell Vent	SER 8/16/91	DRP-Shaeffer	05-06C	Open per 2/18/05 restart Ltr	Yes	SER 8/16/91	No	TI 2515/121, TVA action due Mar 06. U3 95-38, 95-56.
29	GL 92-01	Reactor Vessel Structural Integrity		NRR DRP/Shaeffer		Complete- Package available	Yes	No SER	NRR to issue closure ltr.	-TVA to NRC 5/23/94 letter, TVA will inform NRC of the applicability of NEDO 32205 within 90 days of the final surveillance capsules analysis report. 7/07/99 letter closed for U 2,3.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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30	GL 92-04	Resolution of the Issues Related to Reactor Vessel Water Level Instrumentation in BWRs	SER 3/25/93	DRP-Patterson		Complete	Yes	SER 3/25/93	No	IR 93-16, see IEB 93-03, -Long term actions were addressed as part of the resolution of Bulletin 93-03. TI 2515/119 ref. U2 93-16. NRC 3/25/93 letter found acceptable for all three units - verify.
31	GL 94-02	Long-Term Solutions and Upgrade of Interim Operating Recommendations for Thermal-Hydraulic Instabilities in BWRs		DRS-E. Lea		Open	Yes	No SER	Yes	U3 - IR 94-11, 95-62. Ref TI 2515/119. Need SER to enable TVA to submit TS change on GE topical.
32	GL 94-03	Intergranular Stress Corrosion Cracking of Core Shrouds in BWRs		DRS-Fuller	05-08C	Closed 11/21/05	Yes	SER 1/13/95	No	U3 closed in IRs 94-16 & 95-44 See SP #18.
33	GL 95-07	Pressure Locking and Thermal Binding of Safety-Related and Power-Operated Gate Valves		DRP-Patterson		Open	Yes	SER 6/23/99 HQ Response	No	TVA action due May 06 Lic. Response 5/11/04, 7/29/04. NRC HQ Ltr/SE 1/28/05 closed.

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34	GL 96-01	Testing of Safety-Related Logic Circuits		DRS EB1- C. Smith (S. Walker)		Open	Yes	No SER	No	Inspection planned 12/5/05 and 1/9/06. U2,3 - closed in 6/28/99 completion letter; IRs 98-03, 98-05, 98-07, & 98-09.
35	GL 96-05	Periodic Verification of Design Basis Capability of Motor Operated Valves		DRP-Moore	Inspection complete To close in pending IR 05-09	Complete - Package requested	Yes	No SER	No, closeout via inspection	TVA considers complete since the industry program has been completed.
36	GL 96-06	Assurance of Equipment Operability and Containment Integrity During Design Basis Accident Conditions		DRS-Vias	05-08C	Closed 11/21/05	Yes	No SER HQ Response	No	NRC ltr 2/15/00 closed for all three units, however stated U1 would be revisited. TVA submitted response 5/12/04. NRR letter 2/7/05 said TVA provided acceptable resolution.
37	GL 97-04	Assurance of Sufficient Net Positive Suction for Emergency Core Cooling and Containment Heat Removal Pumps		DRP-Patterson	Inspection complete. To be closed pending SER	Complete-Package available	Yes	BU 93-02	SER pending per NRR	6/11/98 Ltr closed for U 2,3. TVA response for U1 5/6/04-TVA considers complete based on Unit 1 EPU application, dtd 6/28/04.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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38	GL 98-01	Readiness of Computer Systems at Nuclear Power Plants		DRP-Shaeffer	05-06C	Complete-Package available	Yes	No SER	No	NRC to TVA 10/18/99 letter completed.
39	GL 98-04	Potential for Degradation of the Emergency Core Cooling System and the Containment Spray System After a Loss of Coolant Accident Because of Construction and Protective Coating Deficiencies and Foreign Material in Containment		DRS-Lenahan	Inspections completed. Close pending NRR program review.	Complete-Package available	Yes		NRR review	TVA to NRC 5/11/04 letter provided response NRC 11/24/99 Ltr closed for all TVA sites .

THREE MILE ISLAND ACTION ITEMS										
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40	I.D.1	Control Room Design Review		DRS-Lea		Open 3/28/06	Yes	SER 10/29/91		Available for inspection 12/05.
41	I.D.2	Safety Parameter Display Console		DRS-Lea		Open 7/24/06	Yes	SER 2/05/92		Available for inspection 12/05.
42	II.B.3	Post-Accident Sampling System		DRS-Loo		Open 6/28/06	Yes	SER 5/27/87		Insp. Planned 1/06.
43	II.E.4. 2.1-4	Containment Isolation Dependability - Implement Diverse Isolation, containment purge valves		DRP-Bearden		Open	Yes	SER 1/6/95 10/3/95 6/24/04 ltr	HQ SE or Ltr required	Insp. planned 5/06.
44	II.F.1.2 .C	Accident - Monitoring - Containment High Range Radiation		DRS-Loo		Open 5/9/06	Yes	SER 1/8/82		Insp. Planned 1/06.
45	II.F.1.2 .D	Accident - Monitoring - Containment Pressure		DRP-Bearden	05-06C	Closed	Yes	SER 6/16/83		-NRC to TVA 11/8/90 letter closed issue.
46	II.F.1.2 .E	Accident - Monitoring - Containment Water Level		DRP-Bearden	05-06C	Closed	Yes	SER 6/16/83		-NRC to TVA 12/12/83 letter, TS Amendment 92 closed issue.

THREE MILE ISLAND ACTION ITEMS										
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47	II.F.2.4	(Generic Letter 84-23) - Instrumentation for Detection of Inadequate Core Cooling		DRP-Patterson	05-07C	Closed 8/19/05	Yes	No SER		
48	II.K.3.13	HPCI/RCIC Initiation Levels		DRP-Bearden	05-07C	Closed 8/19/05	Yes	SER 9/19/83	TVA will notify upon completion	
49	II.K.3.18	ADS Actuation Modifications		DRP-Bearden	05-07C	Closed 8/19/05	Yes	SER 5/29/90		
50	II.K.3.27	Common reference level for BWR		DRP-Bearden	05-08C	Open	No	SER 9/19/83		Not on TVA letter, added during Shaeffer's review. See IRs 91-03, 91-10, U3 item closed in IR 95-16, NRR ltr dtd 12/30/82 agreed w/integration into I.D.1 and considered item closed for U1,2,3. TVA action due Dec 05.
51	II.K.3.28	Qualification of ADS Accumulators		DRP-Bearden	05-07C	Closed 8/19/05	Yes	SER 5/29/90		

	MULTI-PLANT ACTIONS (MPA)									
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52	MPA-B011	Flood of equipment important to safety		DRP-Carrion			No			TI 2515/088 Flooding information available in association with MELB reviews.
53	MPA-B041	Fire protection - Final TS (including SER Sup)		DRS-Fillion	05-16		No			TI 2515/062, ref. Rpts 89-13, 90-06, 90-11 Review during App. R 10/05. URI 05-16-01 opened.
54	MPA-C002	BWR recirc pump trip (ATWS)		DRP-Patterson			No			TI 2515/095, ref. Rpts 89-35, 95-60.
55	TI 2500/20	Inspection to determine compliance with ATWS Rule 10 CFR 50.62		DRP- Patterson		Open	Yes			SEE GL 83-28. TVA action due Mar 06.
56	TI 2515/111	EDSFI Followup	Unit 1 Followup for previously performed electrical distribution inspection	DRP-Rudisail			No			To complete 2006, Review selected EDG/Bus loading calcs similar to U3 closure in 95-60. Request calcs in advance. Inspection date TBD.
57	TI 2515/154	Spent fuel Material Control and Accountability		DRP/Bearden	04-08C		No			

	MULTI-PLANT ACTIONS (MPA)									
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58	TI 2515/156	Offsite Power System Readiness		DRP/Bearden	04-08C		No			USI A-44 Station Blackout.
59	TI 2515/157	Mark I and II Containment Operations		DRP/Bearden	04-08C		No			Not applicable to BF1 per Steve Stein, NRR. Basis documented in 04-08.
60	USI A-7	Mark 1 Long- Term Program, NuReg-0661, Supp 1		NRR			No			TI 2515/85 Torus Integrity SP.
61	USI A-9	ATWS		DRP-Patterson			No			TI 2500/020,SEE GL 83- 28, USI A-75.
62	USI A-24	Qualification of Class 1E Safety- Related Equipment		DRS- Merriweather			No			Ref. TI 2515/76. Review with EQ Special Program
63	USI A-26	Reactor Vessel Pressure Transient Protection		NRR			No			TI 2500/019, Determine if DRP inspection required PT curves/see GL 88-11.
64	USI A-44	Station Blackout		DRS-EB1		May 06	No			TVA to implement DC power mods. Previously closed for U3 95-16, 95- 34, 95-60.

	MULTI-PLANT ACTIONS (MPA)									
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65	USI A-46	Verification of Seismic Adequacy of Mechanical and Electrical Equipment In Operating Reactors		DRS-Vias			No			Discussed in IR 04-06, E1.3 Ref. GL 87-02.
66	USI A-75	MPA-B085, Required Actions on Generic Implications of Salem ATWS Events, Section 1.2, Post Trip Review		DRP-Patterson			No			See USI A-9 Closed U3 in 95-60 Ref. GL 83-28.

	OTHER MISC ISSUES (potential restart issues)						
	ISSUE	DESCRIPTION	NRC INSP LEAD/ ALTERNATE	CLOSURE IR	NRR UNIT 1 COVERED BY U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
A	New simulator qualification/ Fidelity and Operator staffing	Review licensee's new simulator to support 3 unit operations. Review Licensed Operator staffing plans.	DRS-OLHPB - J. Moorman			No. TVA will submit ltr when testing complete. Letter submitted 7/28/05.	New simulator construction complete. Pre-op testing began June 05. RII OLB discussed with HQs OLB in May 05 - no requirement to inspect; however, will assess performance during Regual. insp. & review any outstanding fidelity issues. Staffing - As of 11/05, BF has 43 ROs, 50 SROs. Two exams scheduled prior to restart adding 15 RO and 8 SRO (3 are RO upgrades). Initial review indicates this would be more than adequate for 3 unit operation.
B	Lay up inspections		DRP-Bearden	CLOSED - Final layup inspection done in 2004, IR 04-06			No open concerns or further actions required.
C	In-vessel inspections, core spray UT	Full RPV internals and weld inspection done June - August, 2005 for 10 year ISI	DRS - Lesser (Fuller, Crowley, Blake)	05-08	N/A	N/A	Additional focus item - In May 2005, licensee det. need to seal weld RHR HX after Unit 2 issues. Look at U2/3 review of mod and ISI implications? DRS inspectors will look at significant portions while DRP/RIs will cover remainder.

	OTHER MISC ISSUES (potential restart issues)						
	ISSUE	DESCRIPTION	NRC INSP LEAD/ ALTERNATE	CLOSURE IR	NRR UNIT 1 COVERED BY U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
D	ORAT	Determine scope of unit start-up oversight reviews (likely reduced scope Operational Readiness Assessment Team [ORAT]) and assemble & schedule team.	Scope - Restart Panel Scheduling - DRP Cahill		N/A	N/A	OPEN, coordinate time with licensee. Could be performed prior to or during restart. Currently scheduled early 2007.
E	Common Accident Signal		DRP-Bearden			No. License amendment submitted 3/05. Amendment approved 4/1/04.	No TVA commitment. During U2 restart, condition discovered which could have prevented automatic initiation of RHR and reported via LER 259/88-12. LER was closed for U2 in 89-35 and closed for U3 in 95-58. Mods I/P U1- DCN51016, U2- DCN 51018 (complete), U3 - DCN 51017 OPEN.
F	Extended Power Uprate	Determine scope of needed inspection reviews to support licensing action.	NRR Project Manager			New SE	OPEN - pending SER
G	Enhanced Restart Monitoring	Restart Panel to determine duration. Proposed 24 hour coverage.	DRP Coordinate.				Scope partially dependent on outcome of RTP (Special Program #27). Will focus on BWR Residents and OL examiners for observations. Include simulator walkdown for each participant.

	OTHER MISC ISSUES (potential restart issues)						
	ISSUE	DESCRIPTION	NRC INSP LEAD/ ALTERNATE	CLOSURE IR	NRR UNIT 1 COVERED BY U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
H	License Renewal Application	Determine scope of needed inspection reviews to support licensing action.	License Renewal & NRR Project Manager			New SE	Open. NRR will review the final Renewal OL, renewal inspections, and SER for Items that impact U1 restart. Determine if any additional inspection required as followup to LR inspections or other requirements.
I	Update Maintenance Rule	Upon restart, U1 needs to comply with explicit scoping requirements of 50.65(b)	NRR Project Manager/Region II inspection		No	No SE. Letter from TVA to confirm Unit 1 in compliance with 50.65(b).	Unit 1 currently has a temporary exemption from the Maintenance Rule which expires upon restart per NRC 8/9/99 letter. This area to be inspected for Reactor Oversight Process (ROP) transition and confirmation of Unit 1 Maintenance Rule scoping. Next inspection schedule for Jan 2007 to include all three units.
J	License Amendment 234 Review	Improved Standard Technical Specifications	NRR Project Manager			Yes	NRC to confirm License condition ITS. TVA to review TS changes made by License Amendment 234 and any other subsequent TS changes prior to entering Mode that TS applies.
K	Turbine Building (TB) Dynamic Seismic Analysis	Confirm seismic demand accelerations for TB	NRR Project Manager			NRR to review.	License condition. NRC to confirm conclusions in TVA letter dated 9/17/04 for turbine building seismic loading.

LIST OF ACRONYMS USED

C	Closed
CA	Corrective Action
CFR	Code of Federal Regulations
EDG	Emergency Diesel Generator
EOC	Extent of Condition Review
EOP	Emergency Operating Procedure
FSAR	Final Safety Analysis Report
GL	NRC Generic Letter
IFI	NRC Inspector Followup Item
IFS	Inspector Followup System
ILRT	Integrated Leak Rate Test (of the Reactor Building)
IR	NRC Inspection Report
LER	Licensee Event Report
MPA	NRC Multi-Plant Action
NRR	Office of Nuclear Reactor Regulation
OIL	Open Item List
OP	Operating Procedure
PM	NRR Project Manager
PER	Problem Evaluation Report
QA	Quality Assurance
RB	Reactor Building
RG	Regulatory Guide
RI	Resident Inspector
SER	Safety Evaluation Report
SFP	Spent Fuel Pool
SIMS	Safety Issues Management System
TIA	NRC Task Interface Agreement (between NRC offices)
TS	Technical Specifications
UHS	Ultimate Heat Sink
URI	NRC Unresolved Item
VIO	NRC Violation

